	Application No.	Applicant(s)
Notice of Allowability	00/042 744	CHOMINICIZI DALII D
	09/943,714 Examiner	CHOMINSKI, PAUL P.
	M-44	2045
	Matthew W. Genack	2645
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 16 August 2005.		
2. The allowed claim(s) is/are 4-8 and 14-18.		
 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. ☑ Notice of References Cited (PTO-892)	5. 🔲 Notice of Informal P	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 18), 7. ☐ Examiner's Amendr	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
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Art Unit: 2645

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 16 August 2005, with respect to Claims 4-8 and 14-18 have been fully considered and are persuasive. The rejections of Claims 4-8 have been withdrawn.

Reasons for Allowance

2. Claims 4-8 and 14-18 are allowed. Independent Claims 4 and 14 recite features that have not been found in any single reference. Specifically, no reference has been found that recites the presence, within a direct conversion transmitter, of a square root sub-circuit followed by a squaring sub-circuit.

Various references wherein direct conversion circuits containing both one or more squaring sub-circuits and one or more square root sub-circuits have been found. Kawai, U.S. Patent No. 6,072,997 discloses a direct conversion receiver that performs squaring on two input signals, summing of said two squared input signals, and the square root of said summed signal (Abstract, Column 2 Line 62 to Column 3 Line 6, Column 4 Line 52 to Column 5 Line 6, Fig. 1). Loper et. al., U.S. Patent No. 5,604,929 discloses a system for controlling gain and phase errors in a direct conversion receiver, wherein input signals are squared before a square root operation is performed (Abstract, Column 4 Lines 1-42, Fig. 4).

Examiner has found no motivation or suggestion to reverse the squaring and square root operations in the direct conversion circuits of the aforementioned references. Therefore, Claims 4 and 14 recite allowable subject matter. Since Claims Application/Control Number: 09/943,714

Art Unit: 2645

5-8 depend on Claim 4, and since Claims 15-18 depend on Claim 14, Claims 4-8 and 14-18 are allowed.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Genack whose telephone number is 571-272-7541. The examiner can normally be reached on FLEX.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew Genack

Examiner

Art Unit 2645

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Page 3

31 October 2005

- Marchen Genard